

Adaptec SATAConnect™ ASH-1205SA

User's Guide



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- The TSID number is included on two white, bar-coded labels, like the example below.



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691 South Milpitas Boulevard
Milpitas, California 95035

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Federal Communications Commission Radio Frequency Interference Statement

WARNING: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. However, if this equipment does cause interference to radio or television equipment reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.
- Use a shielded and properly grounded I/O cable and power cable to ensure compliance of this unit to the specified limits of the rules.

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation.



European Union Compliance Statement

This Information Technology Equipment has been tested and found to comply with EMC Directive 89/336/EEC, as amended by 92/31/EEC and 93/68/EEC, in accordance with:

- EN55022 (1998) Emissions
- EN55024 (1998) Immunity:
 - EN61000-4-2 (1998) Electrostatic discharge: ± 4 kV contact, ± 8 kV air
 - EN61000-4-3 (1998) Radiated immunity
 - EN61000-4-4 (1995) Electrical fast transients/burst: ± 1 kV AC, ± 0.5 kV I/O
 - EN61000-4-5 (1995) Surges ± 1 kV differential mode, ± 2 kV common mode
 - EN61000-4-6 (1996) Conducted immunity: 3 V
 - EN61000-4-11 (1994) Supply dips and variation: 30% and 100%

In addition, all equipment requiring U.L. listing has been found to comply with EMC Directive 73/23/EEC as amended by 93/68/EEC in accordance with EN60950 with amendments A1, A2, A3, A4, A11.



Australian/New Zealand Compliance Statement

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to the Australian/New Zealand standard AS/NZS 3548 set out by the Spectrum Management Agency.



Canadian Compliance Statement

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.



Japanese Compliance (Voluntary Control Council Initiative)

This equipment complies to class B Information Technology equipment based on VCCI (Voluntary Control Council for Interface). This equipment is designed for home use but it may causes radio frequency interference problem if used too near to a television or radio. Please handle it correctly per this documentation.

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Getting Started

This *Installation Guide* describes how to install the Adaptec SATAConnect ASH-1205SA card and its device drivers in Windows® desktop computers. It also describes how to connect internal Serial ATA devices to your ASH-1205SA card.

Kit Contents

Your SATAConnect ASH-1205SA kit includes:

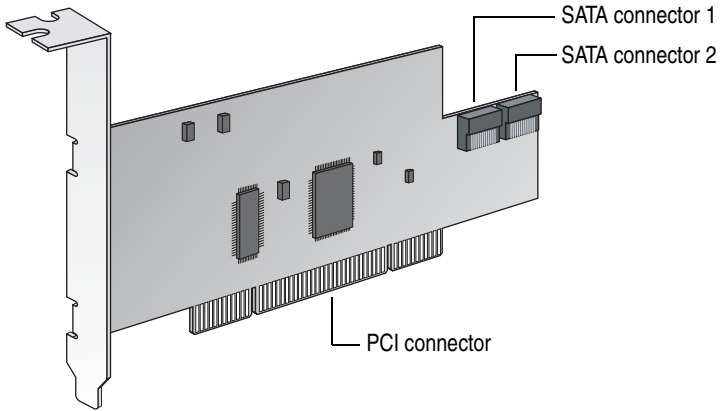
- Adaptec ASH-1205SA Serial ATA (SATA) card
- Internal SATA cable
- SATAConnect CD, including drivers, software, and documentation
- SATAConnect floppy disk, including drivers for use during Windows XP or Windows 2000 installation
- *Adaptec SATAConnect ASH-1205SA Installation Guide*

System Requirements

To use your ASH-1205SA card, you need a PC-compatible desktop computer with:

- A Pentium processor
- Windows® 98SE, Microsoft Windows 2000®, Windows Me®, or Windows XP®
- An available PCI 2.2-compliant slot
- An available SATA drive
- CD-ROM or DVD-ROM drive
- Floppy disk drive

This Is Your ASH-1205SA



Installation Overview

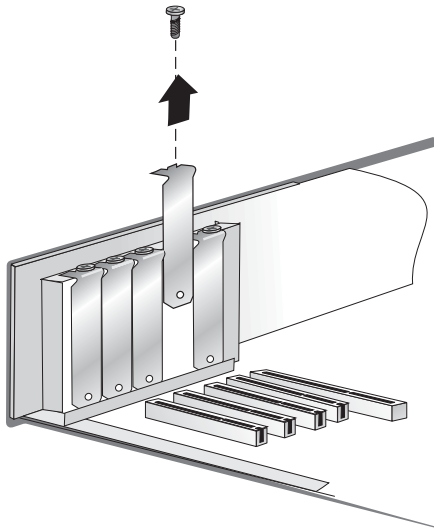
To successfully complete the installation of your ASH-1205SA, complete the following tasks:

- Install the ASH-1205SA card. See [page 4](#).
- Install and connect your internal SATA devices. See [page 6](#).
- Install the ASH-1205SA driver. See [page 7](#).

Installing the ASH-1205SA Card

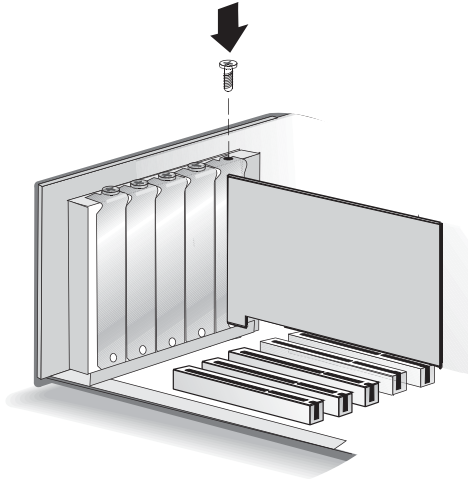
To install your ASH-1205SA:

- 1 Turn off your computer, disconnect the power cord, and ground yourself by touching the metal chassis.
- 2 Remove the computer cabinet, following the manufacturer's instructions.
- 3 Find an unused, unobstructed PCI expansion slot. Unscrew the expansion slot cover screw and remove the slot cover to provide an opening. Save the slot screw for use in [Step 6](#).



- 4 Remove the ASH-1205SA card from its antistatic packaging. *Always* handle the card by its edges.

- 5 Place the card in the PCI expansion slot and press down firmly until the card is fully seated.



- 6 Secure the card bracket with the screw you removed in [Step 3](#).
- 7 Do not close the computer cabinet or reattach the power cord yet. Continue with [Installing and Connecting SATA Devices on page 6](#).

Installing and Connecting SATA Devices

You will need one SATA cable and one standard or SATA power cord for each SATA device you plan to connect to your ASH-1205SA. (Refer to your device's documentation to determine which type of power cord to use.)

One SATA cable is included in your SATAConnect kit.

You can connect a maximum of two SATA devices to your ASH-1205SA, one to each connector on the card.

To complete the installation:

- 1 If your computer is not already open, follow the instructions provided in [Step 1](#) and [Step 2 on page 4](#).
- 2 Mount the first device in an available bay inside your computer. Refer to the computer's documentation for instructions.
- 3 Plug one end of the SATA cable into Connector 1 on the ASH-1205SA.
- 4 Plug the other end of the SATA cable into the SATA port on your device.
- 5 Repeat [Step 2](#) to [Step 4](#) to install a second device, using Connector 2.
- 6 Connect a power cord to each device. (Refer to your device's documentation to determine which type of power cord to use.)
- 7 Close the computer cabinet, reattach the power cord, then power on your computer.

Continue with [Installing the ASH-1205SA Driver on page 7](#).

Installing the ASH-1205SA Driver

When Windows is Already Installed

To complete the driver installation when Windows is already installed on your computer, follow the instructions provided for your operating system:

- For Windows XP see [page 8](#).
- For Windows 2000, see [page 11](#).
- For Windows Me, see [page 15](#).
- For Windows 98SE, see [page 17](#).

When Installing Windows XP or 2000

To complete the driver installation when you are installing Windows XP or 2000, follow the instructions provided on [page 20](#).

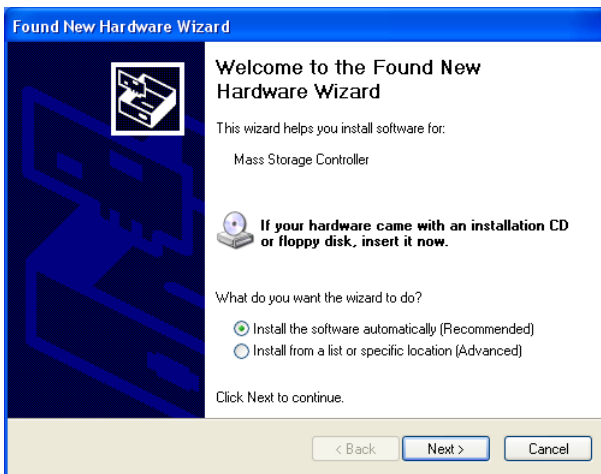
Windows XP



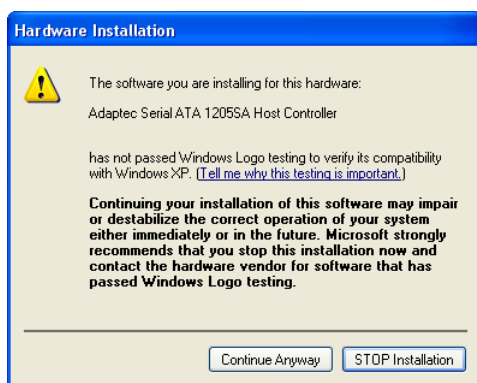
Note: If you are installing your ASH-1205SA at the same time you are installing Windows XP, see [page 20](#) for driver installation instructions.

After you install the ASH-1205SA and your devices, and power on your computer, the Found New Hardware Wizard opens. To complete the driver installation:

- 1 Insert the SATAConnect CD.
- 2 Select **Install the software automatically...**, then click **Next**.



3 Click **Continue Anyway**.



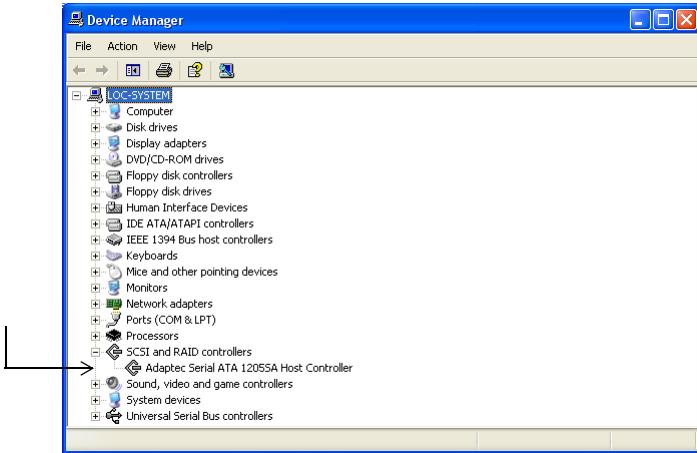
Note: Adaptec drivers have been fully tested and certified to work with the ASH-1205SA card.

4 When the installation is complete, click **Finish**.

Double-checking Driver Installation

To ensure that the driver has installed properly:

- 1 On your desktop, double-click **My Computer**, double-click **Control Panel**, then double-click **System**.
- 2 Open **Device Manager**.
- 3 Double-click **SCSI and RAID Controllers**, and check that Adaptec Serial ATA 1205SA Host Controller appears, as shown in the Figure below.



Windows 2000



Note: If you are installing your ASH-1205SA at the same time you are installing Windows 2000, see [page 20](#) for driver installation instructions.

After you install the ASH-1205SA and your devices, and power on your computer, the Found New Hardware Wizard opens.

To complete the driver installation:

- 1 Insert the SATAConnect CD, then click **Next**.



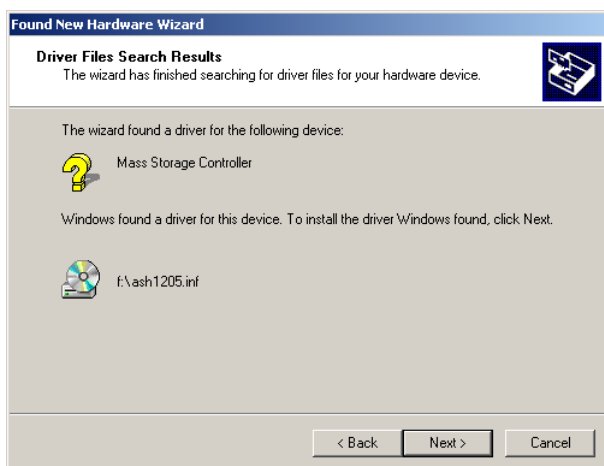
2 Select **Search for a suitable driver...**, then click **Next**.



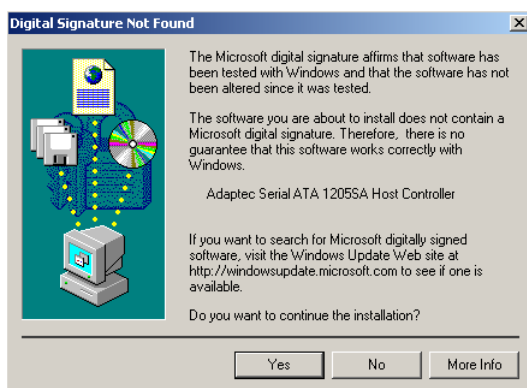
3 Select *only* **CD-ROM drives**, then click **Next**.



4 Click **Next** again.



5 Click **Yes**.



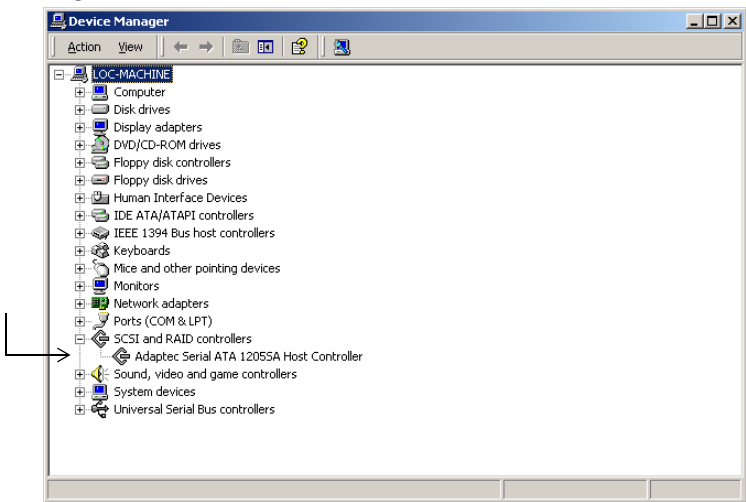
Note: Adaptec drivers have been fully tested and certified to work with the ASH-1205SA card.

6 When the installation is complete, click **Finish**.

Double-checking Driver Installation

To ensure that the driver has installed properly:

- 1 On your desktop, double-click **My Computer**, double-click **Control Panel**, then double-click **System**.
- 2 Open **Device Manager**.
- 3 Double-click **SCSI and RAID Controllers**, and check that Adaptec Serial ATA 1205SA Host Controller appears, as shown in the Figure below.



Windows Me

After you install the ASH-1205SA and your devices, and power on your computer, the Found New Hardware Wizard opens.

To complete the driver installation:

- 1 Insert the SATAConnect CD.
- 2 Select **Automatic search for a better driver...**, then click **Next**.

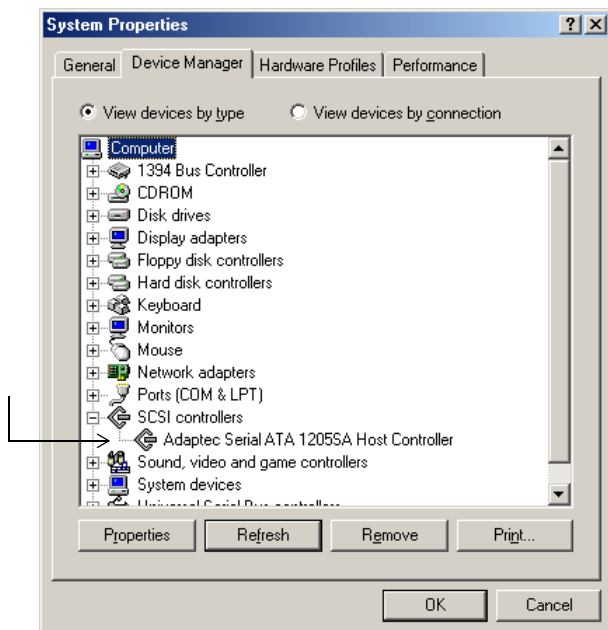


- 3 When the installation is complete, click **Finish**.

Double-checking Driver Installation

To ensure that the driver has installed properly:

- 1 On your desktop, double-click **My Computer**, double-click **Control Panel**, then double-click **System**.
- 2 Open **Device Manager**, and select **View devices by type**.
- 3 Double-click **SCSI controllers**, and check that Adaptec Serial ATA 1205SA Host Controller appears, as shown in the Figure below.



Windows 98SE

After you install the ASH-1205SA and your devices, and power on your computer, the Found New Hardware Wizard opens.

To complete the driver installation:

- 1 Insert the SATAConnect CD, then click **Next**.



- 2 Select **Search for the best driver...**, then click **Next**.



- 3 Select *only* CD-ROM drive, then click **Next**.



- 4 Click **Next** again.

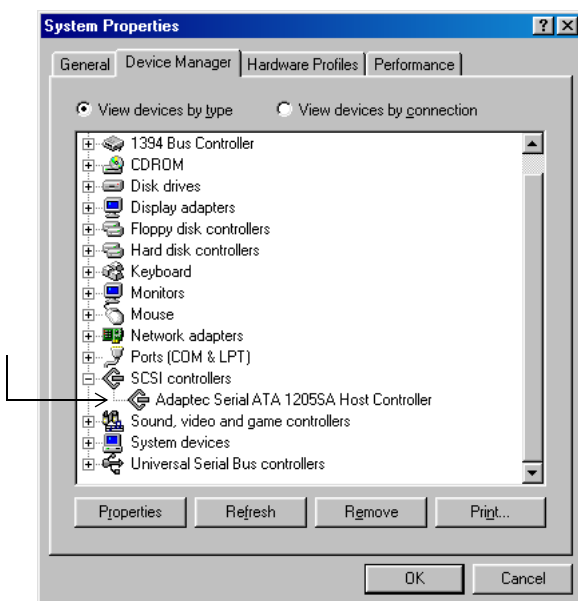


- 5 Click **Finish**.

Double-checking Driver Installation

To ensure that the driver has installed properly:

- 1 On your desktop, double-click **My Computer**, double-click **Control Panel**, then double-click **System**.
- 2 Open **Device Manager**, and select **View devices by type**.
- 3 Double-click **SCSI controllers**, and check that Adaptec Serial ATA 1205SA Host Controller appears, as shown in the Figure below.



Windows XP/2000 (New Windows Installation)



Note: Follow these instructions *only* if you are installing Windows XP or Windows 2000 at the same time you are installing your ASH-1205SA. If your computer already has Windows installed, see [page 7](#) to find the appropriate driver installation instructions.

After you have installed your ASH-1205SA and SATA devices, power on your computer. To complete the driver installation:

- 1 Insert your Windows CD (or Windows 2000 boot disk #1).
- 2 Press **F6** when the Setup screen displays this text:
Press F6 for third party SCSI or RAID driver installation.
- 3 Press **S** to specify an additional device.
- 4 Insert the SATAConnect floppy disk, then press **Enter**.
- 5 Select **Adaptec Serial ATA 1205SA Host Controller**, then press **Enter**.
- 6 Follow the on-screen instructions to select your partition and file system.

Files are copied to your SATA hard drive, then your system restarts.

- 7 Follow the on-screen instructions to complete the installation.

To ensure that the ASH-1205SA driver installed correctly, follow the instructions provided for your operating system:

- For Windows XP, see [page 10](#).
- For Windows 2000, see [page 14](#).

Setting the Boot Drive

You can use the BIOS configuration utility to set one of the SATA hard disk drives connected to your ASH-1205SA as the boot drive.

To set the boot drive:

- 1 Power on your computer.

During boot-up, this message appears in the BIOS:

Adaptec SATA Host Controller 1205SA BIOS

Sil 3112 SATALink Copyright (c) 1997–2003 Silicon Image, Inc.

Press F3 to enter configuration utility.



Note: You can enter the configuration utility only if you have a device connected to your ASH-1205SA card.

- 2 Press F3.
- 3 Press F1 to assign a boot drive.
- 4 Select the hard disk drive you want:
 - Press 1 to use the drive connected to SATA connector 1 (the Primary Channel) on your ASH-1205SA card.
 - Press 2 to use the drive connected to SATA connector 2 (the Secondary Channel) on your ASH-1205SA card.



Note: See the Figure on [page 3](#) if you need help identifying SATA connectors 1 and 2.

- 5 Press Y to confirm the new setting.



Note: Refer to the user's documentation for your system/ computer to find important information on setting your system BIOS to recognize the selected drive as your primary boot drive.

If you want to change the boot drive, see [Deselecting the Boot Drive on page 22](#) for instructions.

Deselecting the Boot Drive

You can use the BIOS configuration utility to deselect (or *remove*) the currently assigned boot drive before setting a new boot drive.

To deselect the boot drive:

- 1 Power on your computer.

During boot-up, this message appears in the BIOS:

Adaptec SATA Host Controller 1205SA
Sil 3112 SATALink Copyright © 1997–2003 Silicon Image, Inc.

Press F3 to enter configuration utility.

- 2 Press F3.
- 3 Press F2 to remove the boot drive.

This warning appears: The boot disk information will be lost!

- 4 Press Y to confirm the change.

The selected drive will no longer be the boot drive. You must now reselect a new boot drive for your system.

Getting Help

If you have any problems installing or using your ASH-1205SA, check these items first:

- Did the ASH-1205SA drivers install correctly? See the Double-Checking Driver Installation section for your operating system:
 - For Windows XP, see [page 10](#).
 - For Windows 2000, see [page 14](#).
 - For Windows Me, see [page 16](#).
 - For Windows 98SE, see [page 19](#).

Try disconnecting your SATA devices from your ASH-1205SA card before checking that the card and its drivers are working properly.

- Is the ASH-1205SA card firmly seated and secured in the PCI expansion slot? Turn off the power to your computer before checking the card.
- Are the SATA cables connecting your SATA devices to the ASH-1205SA plugged in completely and securely?
- Are your SATA devices properly connected to power cables?
- Is the ASH-1205SA detected during boot? If not, try moving the card to another free PCI slot. Follow the instructions in [Installing the ASH-1205SA Card on page 4](#).

If you are still unable to resolve a problem, you can find additional troubleshooting information and direction on the Adaptec Web site at www.adaptec.com and the Adaptec Support Knowledgebase at ask.adaptec.com.



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